

**CONS 70B Course Outline as of Fall 2019****CATALOG INFORMATION**

Dept and Nbr: CONS 70B Title: PROJ ORG &amp; MGT

Full Title: Project Organization and Management

Last Reviewed: 11/26/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.50	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.50	Lab Scheduled	2.00	4	Lab Scheduled	35.00
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 87.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

Developing construction project management skills including quantity surveying, cost estimating, and project scheduling, using software such as Microsoft Project, Excel, and industry accepted cost estimating tools.

**Prerequisites/Corequisites:**

Course Completion of CONS 70A

**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

**Limits on Enrollment:****Schedule of Classes Information:**

Description: Developing construction project management skills including quantity surveying, cost estimating, and project scheduling, using software such as Microsoft Project, Excel, and industry accepted cost estimating tools. (Grade Only)

Prerequisites/Corequisites: Course Completion of CONS 70A

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:

<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
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<b>CSU Transfer:</b>	Transferable	Effective:	Fall 2002	Inactive:
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<b>UC Transfer:</b>		Effective:		Inactive:
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**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

**Student Learning Outcomes:**

Upon completion of the course, students will be able to:

1. Prepare a preliminary quantity survey and estimate for a complete or portion of a building.
2. Prepare a preliminary schedule for a simple construction project.

**Objectives:**

During the course, students will:

1. Identify and research elements for a quantity survey and estimate
2. Prepare a preliminary quantity survey and estimate
3. Identify and research elements for a construction schedule
4. Prepare a preliminary construction schedule

**Topics and Scope:**

I. Introduction and Overview

- A. Review of the construction project cycle
- B. Review of elements of quantity surveying and role in the construction process
- C. Review of elements of estimating and role in the construction process
- D. Review of elements of scheduling and role in the construction process

II. Preparation for estimating and scheduling

- A. Examination of working drawings and specifications
- B. The sequence of basic construction operations
- C. Examination of quantity survey and estimating documents
- D. Examination of scheduling documents
- E. Sequence in construction project cycle

III. Quantity surveying

- A. Sequence and role in construction project cycle
- B. Principles of quantity surveying
- C. Elements of a quantity survey
- D. Documenting a quantity survey

- E. Case studies and applications
- IV. Estimating
  - A. Sequence and role in construction project cycle
  - B. Principles of estimating
  - C. Types of estimates
  - D. Elements of an estimate
  - E. Documenting an estimate
  - F. Case studies and applications
- V. Scheduling
  - A. Sequence and role in construction project cycle
  - B. Principles of scheduling
  - C. Types of schedules
  - D. Elements of a schedule
  - E. Documenting a schedule
  - F. Case studies and applications

Topics and Scope apply to both lecture and lab course components in an integrated format.

**Assignment:**

1. Reading (20-30 pages per week)
2. Exercises and problem solving assignments (6-12)
3. Written assignments involving analysis and synthesis of course material (6-12)
4. Final exam and/or final project with presentation

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written assignments, and documentation of final project - if any

Writing  
15 - 30%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Exercises and problem solving assignments such as preparing portions of a quantity survey, estimate, and schedule

Problem solving  
40 - 70%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

Quizzes and final exam

Exams  
10 - 30%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Class participation and presentation of final project

Other Category  
0 - 20%

**Representative Textbooks and Materials:**

Construction Project Management: A Complete Introduction. 2nd ed. Dykstra, Alison. Kirschner Publishing. 2018

Managing the Construction Process. 4th ed. Gould, Frederick. Pearson. 2011 (classic)

Instructor prepared materials